

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11)Publication number: **63210665 A**

(43)Date of publication of  
application: 01. 09 . 88

(51)Int. Cl

**G01N 33/573**  
**C12N 15/00**  
**C12P 21/00**  
**G01N 33/543**  
**G01N 33/577**  
**// C07K 15/04**  
**(C12P 21/00 , C12R 1:91 )**

(21)Application number: **62042781**

(22)Date of filing: **27 . 02 . 87**

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(54) **ENZYME IMMUNOASSAY OF  
COLLAGENASE INHIBITOR**

(57)Abstract:

**PURPOSE:** To assay a collagenase inhibitor specifically and accurately, by using two kinds of monoclonal antibodies which are bonded specifically to an antigen determinant different in the bovine collagenase inhibitor.

**CONSTITUTION:** An anti-bovine collagenase inhibitor monoclonal antibody (e.g. clone 7-23G9) is bonded to a polystyrene ball. The antibody bonded ball thus obtained is added to

a sample solution to react and the product is washed. Then, an Fab'-POD(peroxidase) complex (e.g. clone 7-6C1-POD) is added to the product to react, and then the product is washed. Thereafter, tetramethylpentyldiyne and then a hydrogen peroxide solution are added to the product to react and the reaction is stopped with the addition of a sulfuric acid. The absorbance of the reaction mixture is measured and the amount of collagenase inhibitor in the sample is determined from a reference straight line.

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